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Elena M. Cuthbertson
ELENA M. CUTHBERTSON

**PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF
MOTOHIRO YAMAHARA, ET AL. ✓
SERIAL NO.: 10/521,843
FILED: JANUARY 18, 2005
TITLE: DENDRITIC POLYMER AND ELECTRONIC DEVICE ELEMENT
EMPLOYING THE POLYMER

DOCKET NO.: SHARP-2
EXAMINER: UNKNOWN
ART UNIT: UNKNOWN

WILMINGTON, DE
DATE: October 7, 2005

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the above identified application, the applicants note and enclose a copy of each of the following references:

| | |
|-----------------------|---|
| Yamamoto, et al. | Japanese Patent Application Laid-Open No. 07-126616 |
| Hitachi, Ltd., et al. | Japanese Patent Application Laid-Open No. 08-018125 |
| Cambridge, et al. | Japanese Patent Application Laid-Open No. 10-092576 |
| Mitsubishi | Japanese Patent Application Laid-Open No. 63-076378 |
| Mitsubishi | Japanese Patent Application Laid-Open No. 2000-336171 |
| Res Dev Corp. | Japanese Patent Application Laid-Open No. 04-133351 |
| Mitsubishi | Japanese Patent Application Laid-Open No. 05-110069 |
| Matsushita | Japanese Patent Application Laid-Open No. 07-206599 |
| Tosoh | Japanese Patent Application Laid-Open No. 10-310561 |

Stanley Elec. Japanese Patent Application Laid-open No. 09-059355

Samuel, et al. WO 99/21935

Synthesis, Light Emission, and Optical Limiting of Hyperbranched Poly[Phenylene-alt-(2,5-Thienylene)s], Luo, J. et al., Polymer Preprints, vol.42, no.2, 2001, pgs. 527-528, XP009020396.

Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Esfand, R., et al., Drug Discovery Today, Elsevier Science Ltd, GB, vol.6 no. 8, April 2001 (2001-04), pgs. 427-436, XP001029831 ISSN: 1359-6446.

Pentacene-Based Organic Thin-film Transistors, Yen-Yi Lin et al., IEEE Transactions on Electron Devices, vol. 44, No. 8 p. 1325-1331 (1997)

Electrically Conducting Dendrimers, L.L. Miller, et al.; J. Am. Chemistry Society, vol. 119, p. 1005-1010 (1997)

Masaaki Kakimoto, Chemistry, vol. 50, p. 608-612 (1995)

Dendritic Macromolecules, Masaaki Kakimoto, Kobunshi (High Polymers, Japan) vol. 47, p. 804-807 (1998)

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Starburst Molecules for Amorphous Molecular Materials, Shirota, Kobata, and Noma, Chemistry Letters, p. 1145-1148 (1989)

Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, Miyaura and Suzuki, Yuki Gosei Kagaku Kyokai Shi, Journal of Synthetic Organic Chemistry, Japan, vol. 46, p. 848 - 860 (1988)

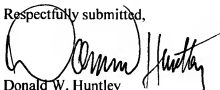
Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Miyaura and Suzuki, Chemistry Rev., vol. 95, pgs. 2457-2483 (1995)

Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles, Suzuki, Journal of Organometallic Chemistry, vol. 576, pgs. 147-168 (1999)

Applicant: Motohiro Yamahara, et al.
Serial No.: 10/521,843
Filing Date: January 18, 2005
Pg. 3

English abstracts or concise English language explanations of each of the above patent publications are also enclosed along with a copy of PTO form 1449.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Donald W. Huntley", is written over a circular stamp that is mostly obscured by the signature.

Donald W. Huntley
Attorney for Applicants
Registration No. 24,673

cmc

Enclosures

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Under the Paperwork Reduction Act
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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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| Sheet | 1 | of | 2 |
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Complete if Known

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| Application Number | 10/521,843 |
| Filing Date | January 18, 2005 |
| First Named Inventor | Motohiro Yamahara |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | Sharp-2 |

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | 1 ^o |
|--------------------|----------|--|------------------|---|---|----------------|
| | | Country Code ⁹ Number * Kind Code ⁹ (if known) | MM-DD-YYYY | | | |
| | | JP-07-126616 | 05-16-1995 | Yamamoto Ryulch | | |
| | | JP-08-018125 | 01-19-1996 | Hitachi, Ltd | | |
| | | JP-10-092576 | 04-10-1998 | Cambridge Displ | | |
| | | JP-63-076378 | 04-06-1988 | Mitsubishi Elec | | |
| | | JP-2000-336171 | 12-05-2000 | Mitsubishi Chem | | |
| | | JP-04-133351 | 05-07-1992 | Res Dev Corp of | | |

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|-----------------------|--------------|--------------------|------------|
| Examiner Signature | /Duc Truong/ | Date Considered | 04/23/2009 |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /DT/

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| FOREIGN PATENT DOCUMENTS | | | | | |
|--------------------------|-----------------------|--|--------------------------------|---|---|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document Country Code* Number* Kind Code* (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear |
| | | JP-05-110069 | 04-30-1993 | Mitsubishi Elec | |
| | | JP-07-206599 | 08-08-1995 | Matsushita Elec | |
| | | JP-10-310561 | 11-24-1998 | Tosoh Group | |
| | | JP-09-059355 | 03-04-1997 | Agency of IND S | |
| | | WO 99/21935 | 05-06-1999 | Isis Innovation | |

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| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | Sharp-2 |

Sheet 1 of 2

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|--------------------|-----------------------|---|----------------|
| | | LUO, PENG, CHENG, ZHONG TANG, Synthesis, Light Emission, and Optical Limiting of Hyperbranched Poly(Phenylene-alt-(2,5-Thienylene)s), Polymer Preprints, 2001, p. 527-528. | |
| | | ESFAND, TOMALIA, Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Drug Discovery Today, April 8, 2001, p.427-436, Vol. 6, No. 8 | |
| | | LIN, GUNDLACH, NELSON, JACKSON, Pentacene-Based Organic Thin-film Transistors, IEEE Transactions on Electron Devices, August 8, 1997, p1325-1331, Vol 44, No. 8. | |
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| | | KAKIMOTO, Chemistry, 1995, p. 608-612, Vol. 50. | |
| | | KAKIMOTO, Dendritic Macromolecules, Kobunshi High Polymers, 1998, p.804-807, Vol. 47. Japan. | |
| | | YOSHINO, ONODA, Conducting Polymer and Its Electronically and Optically Functional Devices, Polymer Electronics, 1996, p.32, Corona, Japan. | |
| | | Dodensei Kobunshi No Kiso To Oyo, Base and Applications Conductive Polymers, p. 24 IPC, Japan. 1963 | |
| | | SHIROTA, KOBATA, NOMA, Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, 1989, p. 1145-1148. | |
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| Examiner Signature | /Duc Truong/ | Date Considered | 04/23/2009 |
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| First Named Inventor | Motohiro Yamahara |
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